VOLUME T.O. NUMBER SIX

MAY 1951

THE SHIPBUILDERS OF THOMASTON -- V JASHBURN BROTHERS

The Washburn line in Thomaston begins with Kimball .ashburn, whose son, George K. Vashburn, married Abigail K. Dunn. Abigail must have been of the sailmaking Dunns who later founded Dunn & Elliot; at any rate George K. jashburn was a sailmaker. carrying on a business established in 1836. He also owned small shares -- a 16th or 32d -- in many of the vessels he made sails for. In 1883 the sail loft was taken over by his third son, Charles H. Washburn, who was born about 1848.

Meanwhile the retirement of Samuel atts left an idle shipyard in Thomaston, and accordingly in 1836 the firm of Washburn Brothers & Co. was established. The partners were Frank A., Charles H., Edwin P., and William G. Washburn and James Overlock, a lumber dealer. As was almost in- maston, with their fleet well on the way variably the case in the smaller Maine shipbuilding centers, a general store, where the ship carpenters could get credit, burns also acquired the old marine railway was operated in connection with the shipyard. In fact, it appears likely that a great deal of the capital required to finance the building of Maine ships, from keel-laying to launching, was unknowingly supplied by the wholesalers of New England, ting a ship repair business. New con-The shipyard workers, though generally paid in cash, spent most of their wages at time also, and the following small schoonthe company store, and the line of credit extended by the wholesalers to the store helped carry the vessel until she was com- Port Clyde Harine Railway Co. pleted and the part owners paid in their full shares.

Newell E. Vinal was mester builder for the ashburn firm when it commenced opera- 1894 3m. Sch J. 7. BALANO tions in the former Watts yard, and the first hull, the schooner MATTIE E. EATON, was completed early in 1887. The firm owned 1/32 of her, as did Vinal; C.H. and E.P. Jashburn individually each owned 7/64. and the rest was widely distributed. The following is a list of schooners built by Vashburn Brothers, with gross tonnages:

4 C / I had also be for	, or a ra	, , , , , , , , , , , , , , , , , , , ,	Little 1
1887	3m.Sch	MATTIE E. EATON	620
1388	4m. Sch	JOHN K. SOUTHER	993
1889	4m.Sch	MABEL JORDAN	993
1890	4m.Sch	CHARLES L. DAVENPORT	1032
1890	4m. Sch	HENRY J. SMITH	1103
1890	3m.Sch	CARRIE T. BALANO	630
1391	3m.Sch	MARTHA T. THOMAS	789
1893	3m.Sch	CORA H. HANSON	525

1395 4m. Sch HENRY LIPPITT

	1396	4m.Sch	R. W. HOPKINS	935
	1898	4m.Sch	JOHN C. HAYNES	1346
	1899	4m.Sch	MARY T. QUINBY	1172
	1900	4m.Sch	JOHN E. DEVLIN	1107
	1900	3m.Sch	MARY E. LERMOND	314
	1900	4m, Sch	JOSEPH B. THOMAS	1564
	1901	5m.Sch	JAMES PIERCE	1664
,	1901	Am. Sch	JOSEPH G. RAY	1253
0	1902	4m.Sch	HARRY T. HAYWARD	1203
	1903	5m.Sch	WASHINGTON B. THOMAS	2638
	1903	4m.Sch	HELEN THOMAS	1470
	1904	4m, Sch	MARGARET THOMAS	1427
-	1904	3m.Sch	MARY BRADFORD PIERCE	410
	1905	3m.Sch	STILLMAN F. KELLEY	685

The JAMES PIERCE and WASHINGTON B. THO-MAS were the first five-masters built at Thomaston, and the only other one ever produced there was Dunn & Elliot's EDNA HOYT in 1920.

After a few years of operations at Thoto becoming one of the largest coasting schooner fleets on the Atlantic, the Washat Herring Gut, down the river from Thomaston. This town, which was rechristened Port Clyde by the post office authorities. is more accessible from the sea than Thomaston and hence more suitable for conducstruction was undertaken here from time to ers are listed as built by the Washburn Marine Railway Co., or (after 1892) by the 1890 2m. Sch. FRED B. BALANO 263 1892 3m. Sch JAMES A. SIMPSON 250

The SIPSON and HALL were managed by James A. Simpson of Westfield, New York,

319

1893 3m. Sch EUGENE HALL

CONTENTS OF THIS ISSUE	
THOMASTON SHIPBLDRS. VI. Atlantic Coas	t
CAL CO	.62
COOS BAY SHIPBUILDERS.III.H.R.Reed	.62
CURRENT BIBLIOGRAPHY	.64
BOOK REVIEWS	
HEYERDAHL, BENHAM, BENNETT	
ANSON, PURVES, LEARMONT	
NEWS ITEMS	
DUTCH COASTERS II. IRISH PENNANTS	.69
SAILING SHIPS LAUNCHED IN THE	
UNITED KINGDOM, 1881	.70
THE EARLIEST STEEL	
SAILING VESSELS	.72

LOG CHIPS is published every two months by John Lyman at 7801 Gateway Boulevard, Washington 19, D.C. Subscription rate: Sl per volume (12 issues). A few copies of Volume One are available at \$2; after 1 July 1951 the price will be \$3.

895

and the other two were run by the Washburns, along with all the schooners they built at Thomaston. In 1892 Overlock dropped out of the partnership, and the firm was reorganized as ashburn Brothers.

Along with the vessels built for their own account, Washburn Brothers also ran a couple of second-hand schoeners, notably the 296-ton two-master GEORGE H. HILLS. built at Port Jefferson, N.Y., in 1867, and Coast shipbuilders, however, tended to be the 306-ton three-master J.S.LAMPREY, Salem, a restless lot, and none more so than 1872. In 1904, at the time their 25th ves-Hans Reed, vel (probably | ARGARIT THOMAS) was being built, it was stated that the firm had produced 11 from the same model, and that the recent four-masters were costing \$70,000.

Washburn Brothers suffered a fairly high loss rate -- three schooners, JOHN HAYNES, MARY LERIOND, and WASHINGTON THOMAS, were lost when brand-new -- and in 1907 their fleet had dwindled to only 13 vessels including J.S.LAMPREY and GEORGE MILLS. Several more losses and sales occurred in the next few years, and by 1911 the last survivors of the fleet were sold outright to Crowell & Thurlow of Boston.

VI -- ATLANTIC COAST COMPANY

Crowell & Thurlow continued to build up their schooner fleet, and also built a line of steamers. In World War I they went into the shipbuilding business, acquiring several yards Down East for building wooden schooners. One of these yards was at Thomaston, where the Atlantic Coast Company, where they built the JENNIE THELIN. Crowell & Thurlow's shipbuilding subsidiary, managed by Will Washburn and with Ira Vinal at Port Hadison he built the A.S. PHELPS, as master carpenter, built the following schooners for Crowell & Thurlow's manage-

	7077	Am Sah	JESSIE G. NOYES	1376
	1918	4m. Sch	AUGUSTA G. HILTON	1.652
,	1918	4m.Sch	IDAS. DOW	1411
	1919	4m.Sch	M. VIVIAN PIERCE	1511
	1919	4m.Sch	MI H. HARRII AN	1450
	1920	4m.Sch	ATLANTIC COAST	1643
	1920	4m, Sch	ELIZABETH FREE LAN	1665

The registered owner of these vessels was changed from the Atlantic Coast Co. to the New Ungland Maritime Co. in 1925, but Crowell & Thurlow continued as managers. JESSIE NOYES was lost in 1927; as was E. FRETMAN. and ATLANTIC COAST in 1926. W. H. HARRI MAN went out to the West Coast in 1928 and ended in Los Angeles Harbor in 1940. AUGUSTA HILTON was lost as a Brava packet in 1933; IDA DOW was hulked at Newport News, and M. V. PIRCE, as ED TARD L. STAN, became a breakwater at Astoria, Long. I.

THE SHIPBUILDERS OF COOS BAY III. HANS R. REED

It is difficult to trace the activities of a shipbuilder who was inclined to move about in his business operations. compared with the more usual cases where a man or a firm settles down in one locality and becomes identified with the shipbuilding industry of that port. West Thanks, however, to some autobiographical notes that he contributed to the "Overland Monthly" in 1895, together with painstaking work by Victor West of North Bend, Oregon, which has been made available to us, we can present a fairly detailed picture of Reed's career.

He was born in Norway in 1840 and was educated in the shipwright's trade. Having passed his examinations he shipped out for San Francisco, where he landed in April 1860. He at once found work in the shipyard of a fellow Morseman, John G. North, where he worked on the BROTHER JONATHAN. REFORM, YOSEMITE, CAPITOL, GEORGE LEVIS. and EUPHEMIA -- river and coastwise passenger steamers that were built or rebuilt by North. 7.

After seven years at this work, Reed moved to the Mare Island Navy Yard for a year or so, and then went with his brothers Olaf and Edward to Davenport Landing, on Monterey Bay near Santa Cruz,

Reed next went to Puget Sound, where still in association with at least one of his brothers, and then went to Coos Bay where he got out the frame of a steamer. shipped it to San Francisco, and at a spot then part of Henry Owens' shipyard and now occupied by the Union plant of the Bethlehem Shipbuilding Company he put together the steamer EASTPORT for the Oregon Coal Co. Then he returned to Port Madison and built a steamer and a barkentine with his brother Olaf. His work up to 1875 can be summarized as follows:

1869	2m.Sch	JENNIE THELIN	145
1870	2m.Sch	W. S. PHELPS	101
1872	Stmr	EASTPORT	483
1873	Stmr	EPIRE	732
1874	3m.Bkm	S. M. STETSON	707

In 1874 Hans Reed came to Marshfield as master builder for B.B.Dean & Co., in a yard originally set up in 1868 by John Hamilton Howlett and Captain James McGee for John Pershbaker, along with a sawmill. Mill and yard were acquired by Dean three

LOG CHIPS 63
years or so later. Here at Marshfield,
Reed built:
1875 3m. Sch LAURA MAY 246
1875 2m. Sch PANNONIA 206
1876 3m. Sch JENNIE STELLA 292
1877 3m. Sch CHARLES H. MERCHANT 283
1880 3m. Bkm GEORGE C. PERKINS 388
1881 3m. Sch DAKOTA 335
1881 3m. Sch JOHN G. NORTH 336
1882 3m. 3km C. C. FUNK 539
1882 2m. Sch VIKING
1883 2m. Sch GLEN
1883 3m.Sch JENNIE WAND
1884 Stmr COOS BAY 544
1886 Stmr ANTELOPE 29
After building the ANTELOPE, Reed went
back to Port Madison, where he built
1888 4m. Sch PURITAN 614.
Then he returned to Oregon, this time
to Bandon, on the Coquille River about 15
miles south of Coos Bay. Here he built:
1889 2m.Sch SILVER TAVE 28
1889 St. Tug TRIU.PH 55
1890 St. Whl. DISPATCH 158
1890 St. hl.ALERT 96

Next he built a schooner on Coos Bay. at Pershbaker's Hill: 1892 2m. Sch MASCOT

1891 Stmr. HOMER

time to Prosper, which is 42 miles above Bandon, and built . 1301 do 118. 1893 2m. Sch JINCHESTER

During the next five years of hard times, we find no new construction credi- in the URRES. In 1892 he was for a month ted to Hans Reed. Then he appears at Fortor so master of the stern-wheeler DISPATCH. Bragg. Northern California, building a steam schooner: 51.9. 1898 St. Sch SEQUOIA

building at a yard owned by J. Ross on Point. It was too far from the miles, and getting material up to it was expan-GIE ROSS of 1888 were the only vessels ever built there.

1900 St. Sch SANTA ANA

Reed next moved to a spot across the bay from Marshfield, known as Bay City. Hers he built 190% St.Sch ARCTIC and started another steam schooner, but

we now know, the shipbutlding career of Hans R. Peed.

According to some registers, however, the SANTA ANA was built by H.R. Reed and

Son, and later in 1900 one Thomas C. Reed commenced shipbuilding operations at Ballard, Washington, which is where the locks to the Lake Union Ship Canal in Seattle are now located. Although we have no evidence in support of our theory, it is logical to assume that Tom Reed was the son of Hans Reed, and carried on in the tradition of his father. He built: 1900 4m, Sch STIMSON 693 TILLI CUM 1901 Stmr 116 1302 Am. Sch M. NOTTINGHAM 1204 1902 4m. Sch WILLIS A. HOLDEN 1188 1902 4m. Sch WILBERT L. SMITH 848 1903 4m Sch. ALEX T. BRO.N 788 1904 4m. Sch J. W. CLISE 845

The five later four-masters were built under the style of the Globe Construction Company for the Globe Navigation Company, an organization of investors mainly from Buffalo and other Lake ports who were interested in taking part in the then-booming

coasting lumber trade.

1905 St. Thl, COLUMBIA

Olaf Reed, Hans's brother, was born in Norway in 1827, and first came to Oregon in 1869 as master of the JEMNIE THELIN. He later was associated with Hans in building on Puget Sound, as already stated. In 1880 Then he went back to the Coquille, thishe built (or had built) the 20-ton screw steamer CERES at Norway, on Coos Bay, where he and Odin Nelson were partners in a general store; and for many years he navigated the waters of the Bay, hauling merchandise

The schooner JENNIE THELIN had the distinction of being the only sailing vessel of any importance built south of San Fran-In 1900 he was back on Coos Bay again, casco between the time of the Mexican War and Torid Var I (1845-1919). The steamer Istimus Slough at a place called Pleasant EMPIRE of 1873 was a coasting collier; she is said to have become a South American gunboat around 1907. The COOS BAY and HOMER sive. The SANTA ANA, and the steamer MAC were also colliers; the latter was afloat as a barge in Los Angeles harbor in 1940, and was sold to Costa Rican owners in 1943.

> The MASCOT and WINCHESTER were Bering Sea sealers; the MASCOT was lost with all hands on the Japanese coast in 1894, while the WINCHESTER was transferred to foreign

registry in 1903.

The SANTA ANA, Reed's largest product. he was unsuccessful in getting her finan- was built for A. V. Beadle of San Francisco, cod so abandoned her on the ways, and she but was bought in a year or so by Charles was never completed. So ended, as far as Nelson, who sold her in 1903 to the Pacific Packing & Navigation Co. In 1907 her owners became the Alaska Steamship Co. of Seattle, who ran her until 1922. After several more changes of owners, she was burned in 1939.

CURRENT BIBLIOGRAPHY

ALBION, Robert G. "Maritime and naval history; an annotated bibliography. " Dittoed; iii & 60 leaves; Harvard University 1951. Primarily for students in Professor Albion's courses.

no OORI at retal tan .no

ATKIN, John, "Evolution of hull forms," Motor Boating, pp. 46-49, 120, April

1951. Ill. Canoes, balsas, etc. AUSTIN, Cliver L. Jr., and Ford WILKE, "Japanese fur sealing." U.S. Fish & Wildlife Serv. Spec. Sci. Rep. Wildlife No. 6. 91 pp; ill; Washington, D.C., 1950.

BOOTH, J.H. Lawson, Ahistory of the Southport lifeboats; a record of gallantry and endurance on the Southport shore. " 47 pp; ill. The Museum, Botanic Gardens, Churchtown, 1949. Price 1s.

BURGESS, Charles P., "Edward Burgess and his work; an evaluation of a brief career which played a major role in American yacht design, " Yachting, pp. 44-46, 87-90, March 1951. Ill; plans.

CHAPELLE, H.I. "American yacht design, 1800-1840; the earliest yachts and the men who designed them," Yachting, pp. 36-38, December 1950. Has plans of I. Webb's DREAM (1833) and a yacht by Humphreys for Canton, 1806.

sbgn, " Yachting, pp.81-83, 164, 168-172, Jan. 1951. Ill; plans by Steers and Winde.

DICKINSON, Bessie, "Bath woman sailed high PEMBERTON, Frank, "Model maker Brownell," seas. " Lewiston Journal, 10 Feb. 1951, magaz, sect; ill, Memories of sailing in ARYAN and RAPPAHANNOCK.

ESTEY, Charlotte, "Historic type models," of fishing vessels modeled by A.S.Brownell, in Providence Public Library.

HOBBS, Wm.H., "The Fourteenth Century discovery of America by Antonio Zeno, "Sci. TOMLINSON, Harry J., "Wooden ships and Mon., v.72, pp.24-31. Jan. 1951.

HOBBS, Wm. H., "Verrazano's voyage along the North American coast in 1524, " Isis, v. 41, pp.263-277; ill. 1950.

HOBBS, Who. H., "Palmer's map of the South Shetlands and the Palmer Peninsula," Conn. High. Soc. Bull., v.15, pp.25-29, ill 1950. This and preceding contain the erroneous assumption that the compass needle points to the magnetic pole.

HUYCKE, Harold D., "The Flying P Line of Hamburg, " Sextant, v.7, No.19, po.5-7. San Francisco 1950. F. Laeisz's sailers.

KESTEVEN, G.L. (Ed.) "Malayan fisheries; a handbook prepared for the inaugural meeting of the Indo-Pacific Council, Singapore, March 1949." 88 pp, 16 pl,

Singapore 1949, pp.58-66 are "The fishing boats used on the coasts of Malaya," by C. A. Gibson-Hill, with photos by him,

LA TOUR, Cy, "J.W. WESTCOTT, postman for the Great Lakes, " Nat. Geog., v. 98, pp, 813-824, 1950; ill. Detroit River mail boat.

LILLE, Sten, "Nar fregattskeppet GLENARD förlorade riggen in Biskaya, "Finlands S.jofart, pp. 325-329, Oct. 1950; 111. Dismasting of GLENARD, 1920.

LOG. The. "Ship Stack Insignia." 1950. Colored broadside of funnel markings of American lines and lines trading to America; dist.by Marine Sales Div., Texas Co., 135 E 42d St., New York City 17.

MARINERS' MUSEUM, "Exhibition of portraits of American merchant sailing vessels of the Mineteenth Century together with ship models, chinaware and related material." Museum Pub. No. 22, 1951. 27 pp; ill; index,

MOORE, W.H., "Wreck of the LUCY WALKER." Reprint from 'Evangelical Guardian' v.2, pp. 327-330, 1844, by David K. Webb, Chillicothe, O., 1950. Contemporary account of Mississippi steamer explosion, by photolithography.

CHAPELLE, H.I., "Early American yacht de- PEARDON, V.O., "Sprace boards for Barbados," Motor Boating, pp.32-33, 105-110; ill; March 1951. Author bought and sailed tern ST CLAIR THERIAULT in 1924.

Providence Sunday Journal Magaz., pp.1-8, 26 Nov. 1950: ill. Alfred S. Brownell. some time publisher of "Rhode Island Mariner."

Yachting, p. 49, March 1951. Six photos SNOW, Edward Rowe, "Fate of the MERTIE CROW-LEY. " Rockland Courier Cazette, 5 April 1951 (and an earlier issue). Loss of the six-master.

staunch sails, " Grace Log, pp. 8-10, 34, Sept/Oct 1950; ill. W.R. GRACE, M.P. GRACE, and MANUEL ILAGUNO.

TRUXTON-DECATUR NAVAL MUSEUM, "Sea power and early American history; an exhibition February-May 1951," 14 pp., Washington D.C. Catalog of their Ath exhibit

TVING, R., "Grønlands besejling," Grønlands Bogen, v.2, pp.121-146; ill. J.H.Schultz Forlag, København 1950. History of Greenland trade.

VILLIERS, Alan, "End of the voyage; homeward bound from Greenland," Jornal do Pescador, pp.34-39; ill; Feb.1951.

WINSLOW, Frank A., "From memory's realm," Rockland Courier-Gazette, p.2, ill; 6 Jan, 1951. Launching of 6m. sch. GEORGE W. WELLS, 14 Aug. 1900.

years or so	later. Here at Marshi	field,
Reed built:		
1875 3m. Sch	LAURA HAY	246
1875 2m.Sch	PANNONIA	206
1876 3m.Sch	JENNIE STELLA	292
1877 3m.Sch	CHARLES H. MERCHANT	283
1880 3m, Bkm	GEORGE C. PERKINS	388
1881 3m.Sch	DAKOTA	335
1881 3m.Sch	JOHN G. NORTH	336
1882 3m.Bkn	C. C. FUNK	539
1882 2m.Sch	VIKING	146
1883 2m. Sch	GLEN	1277
1883 3m.Sch	JENNIE WAND	171
	COOS BAY	
1886 Stmr	ANTELOPE	29
After bui	ilding the ANTELOPE. I	Reed wen

back to Port Madison, where he built 1888 4m. Sch PURITAN

Then he returned to Oregon, this time to Bandon, on the Coquille River about 15 miles south of Coos Bay. Here he built: 1889 2m. Sch SILVER WAVE 1889 St. Tug TRIUPH 158 1890 St. Whl. DISPATCH 1890 St. Ml.ALERT . 96 1891 Stmr. HOMER 501

Next he built a schooner on Coos Bay, at Pershbaker's Hill: 1892 2m. Sch MASCOT

time to Prosper, which is 42 miles above Bandon, and built 1893 2m. Sch JINCHESTER

During the next five years of hard times, we find no new construction credi- in the JERES. In 1892 he was for a month ted to Hans Reed. Then he appears at Fortor so master of the stern-wheeler DISPATCH. Bragg, Northern California, building a steam schooner: 1898 St. Sch SEQUOIA

building at a yard owned by J. Ross on Isthmus Slough at a place called Pleasant Point. It was too far from the miles, and getting material up to it was expensive, The SANTA ANA, and the steamer MAG-were also colliers; the latter was afloat GIE ROSS of 1888 were the only vessels ever built there.

1900 St. Sch SANTA ANA Reed next moved to a spot across the bay from Marshfield, known as Bay City. Hers he built

1907 St. Sch ARCTIC and started another steam schooner, but we now know, the shipbuilding career of Hans R. Feed.

According to some registers, however, the SANTA ANA was built by H.R. Reed and

Son, and later in 1900 one Thomas C. Reed commenced shipbuilding operations at Ballard, Washington, which is where the locks to the Lake Union Ship Canal in Seattle are now located. Although we have no evidence in support of our theory, it is logical to assume that Tom Reed was the son of Hans Reed, and carried on in the tradition of his father. He built: 1900 4m, Sch STIMSON 693 1.9(1 Stmr TILLICUM 116 1302 Am. Sch M. NOTTINGHAM 1204 1908 4m, Sch WILLIS A. HOLDEN 1188 1902 4m. Sch WILBERT L. SMITH 848 1907 4m Sch. ALEX T. BRO.N 788

1905 St. Thl, COLUMBIA The five later four-masters were built under the style of the Globe Construction Company for the Globe Navigation Company, an organization of investors mainly from Buffalo and other Lake ports who were interested in taking part in the then-booming coasting lumber trade.

845

1904 4m. Sch J. W. CLISE

Olaf Reed, Hans's brother, was born in Norway in 1827, and first came to Oregon in 1869 as master of the JEMNIE THELIN. He later was associated with Hans in building on Puget Sound, as already stated. In 1880 Then he went back to the Coquille, thishe built (or had built) the 20-ton screw steamer CERES at Norway, on Coos Bay, where he and Odin Nelson were partners in a general store; and for many years he navigated the waters of the Bay, hauling merchandise

The schooner JENNIE THELIN had the distinction of being the only sailing vessel of any importance built south of San Fran-In 1900 he was back on Coos Bay again, casco between the time of the Mexican War and Torid Var I (1845-1919). The steamer EMFIRE of 1873 was a coasting collier; she is said to have become a South American gunboat, around 1907. The COOS BAY and HOMER as a barge in Los Angeles harbor in 1940, and was sold to Costa Rican owners in 1943.

The MASCOT and WINCHESTER were Bering Sea sealers; the MASCOT was lost with all hands on the Japanese coast in 1894, while the WINCHUSTER was transferred to foreign registry in 1903.

The SANTA ANA, Reed's largest product, he was unsuccessful in getting her finan-was built for A. 7. Beadle of San Francisco, cod so abandoned her on the ways, and she but was bought in a year or so by Charles was never completed. So ended, as far as Nelson, who sold her in 1903 to the Pacific Packing & Navigation Co. In 1907 her owners became the Alaska Steamship Co.of Seattle, who ran her until 1922. After several more changes of owners, she was burned in 1939.

CURRENT BIBLIOGRAPHY

ALBION, Robert G., "Maritime and naval history; an annotated bibliography." Dittoed; iii & 60 leaves; Harvard University 1951. Primarily for students in Professor Albion's courses.

and later in 1900 one

ATKIN, John, "Evolution of hull forms," Motor Boating, pp. 46-49, 120, April 1951. Ill. Canoes, balsas, etc.

AUSTIN, Oliver L.Jr., and Ford WILKE, "Japanese fur sealing." U.S. Fish & Wildlife Serv. Spec. Sci. Rep. Wildlife No. 6. 91 pp; ill; Washington, D.C., 1950.

BOOTH, J.H. Lawson, Ahistory of the Southport lifeboats; a record of gallantry and endurance on the Southport shore." 47 pp; ill. The Museum, Botanic Gardens, Churchtown, 1949. Price 1s.

BURGESS, Charles P., "Edward Burgess and his work; an evaluation of a brief career which played a major role in American yacht design, " Yachting, pp. 44-46, 87-90, March 1951. Ill; plans.

CHAPELLE, H.I. "American yacht design. 1800-1840; the earliest yachts and the men who designed them, "Yachting, pp. 36-38, December 1950. Has plans of I. Webb's DREAM (1833) and a yacht by Humphreys for Canton, 1806.

segn," Yachting, pp.81-83, 164, 168-172, Jan. 1951. Ill; plans by Steers and Winde.

DICKINSON, Bessie, "Bath woman sailed high PEMBERTON, Frank, "Model maker Brownell," seas. " Lewiston Journal, 10 Feb. 1951, magaz, sect; ill, Memories of sailing in ARYAN and RAPPAHANNOCK.

ESTEY, Charlotte, "Historic type models," of fishing vessels modeled by A.S.Brownell, in Providence Public Library.

HOBBS, Wm.H., "The Fourteenth Century discovery of America by Antonio Zeno, "Sci. TOMLINSON, Harry J., "Wooden ships and Mon., v.72, pp.24-31, Jan.1951.

HOBBS, Wm. H., "Verrazano's voyage along the North American coast in 1524," Isis, v. 41, pp.263-277; ill. 1950.

HOBBS, Wm. H., "Palmer's map of the South Shetlands and the Palmer Peninsula." Conn. High. Soc. Bull., v.15, pp.25-29, ill 1950. This and preceding contain the erroneous assumption that the compass needle points to the magnetic pole.

HUYCKE, Harold D., "The Flying P Line of Hamburg, " Sextant, v.7, No.19, pp.5-7, San Francisco 1950. F. Lacisz's sailers.

KESTEVEN, G.L. (Ed.) "Malayan fisheries; a handbook prepared for the inaugural meeting of the Indo-Pacific Council. Singapore, March 1949." 88 pp, 16 pl,

Singapore 1949, pp. 58-66 are "The fishing boats used on the coasts of Malaya." by C. A. Gibson-Hill, with photos by him,

LA TCUR, Cy, "J. W. WESTCOTT, postman for the Great Lakes, "Nat.Geog., v.98, pp.813-824, 1950; ill. Detroit River mail boat.

LILLE, Sten, "När fregattskeppet GLENARD förlorade riggen in Biskaya, Finlands Sjöfart, pp. 325-329, Cet. 1950; 111. Dismasting of GLENARD, 1920.

LOG, The, "Ship Stack Insignia," 1950. Colored broadside of funnel markings of American lines and lines trading to America; dist. by Marine Sales Div., Texas Co., 135 E 42d St., New York City 17.

MARINERS' MUSEUM, "Exhibition of portraits of American merchant sailing vessels of the Nineteenth Century together with ship models, chinaware and related material. " Museum Pub. No. 22, 1951. 27 pp; ill; index,

MOORE, W.H., "Wreck of the LUCY WALKER." Reprint from 'Evangelical Guardian' v.2. pp. 327-330, 1844, by David K. Webb, Chillicothe, O., 1950. Contemporary account of Mississippi steamer explosion, by photolithography.

CHAPELLE, H.I., "Early American yacht de- PEARDON, V.O., "Spruce boards for Barbados," Motor Boating, pp. 32-33, 105-110; ill; March 1951. Author bought and sailed tern ST CLAIR THERIAULT in 1924.

> Providence Sunday Journal Magaz., pp.1-8, 26 Nov. 1950; ill. Alfred S. Brownell. some time publisher of "Rhode Island Mariner."

Yachting, p. 49, March 1951. Six photos SNOW, Edward Rowe, "Fate of the MERTIE CROW-LEY," Rockland Courier Gazette, 5 April 1951 (and an earlier issue). Loss of the six-master.

> staunch sails," Grace Log, pp.8-10, 34, Sept/Oct 1950; ill. W.R. GRACE, M.P. GRACE, and MANUEL LLAGUNO.

TRUXTON-DECATUR NAVAL MUSEUM, "Sea power and early American history; an exhibition February-May 1951," 14 pp., Washington D.C. Catalog of their Ath exhibit

TVING, R., "Grønlands besejling," Grønlands Bogen, v.2, pp.121-146; ill. J.H. Schultz Forlag, København 1950. History of Greenland trade.

VILLIERS, Alan, "End of the voyage; homeward bound from Greenland," Jornal do Pescador, pp.34-39; ill; Feb.1951.

WINSLOW. Frank A. "From memory's realm." Rockland Courier-Gazette, p.2, ill; 6 Jan, 1951. Launching of 6m. sch. GEORGE W. WELLS, 14 Aug. 1900.

REVIEWS BOOK

HEYERDAHL. Thor, "KON-TIKI; across the index. London, Geo.G. Harrap & Co., 1948; Pacific by raft. 304 pp; ill; index. Chi-3d imp. 1950. Price 15s. cago, Rand, McNally & Co., 1950; \$4.00. BENHAM, Hervey, "Down tops'1; the story

Hayerdahl, four other Norwegians, and a of the East Coast sailing barges, 192 pp. Swede built a balsa raft after the style of those used by the ancient Peruvians, launched it off Callao, Peru, on 28 April 1947, and ended up with it on a reef in the Tuamotus on 7 August. The object of the venture was to obtain support for a theory of Heyerdahl's that much Polynesian ies, are wintering places for wild-fowl, culture was transferred in this way from the South American mainland.

In our opinion, this voyage proves nothing of the sort. It proved again, if more proof is needed, that Norwegians will and the ram to the Chesapeake, the barge undertake to sail anything that floats and was to the Thames Estuary, only more so. Two Norwegian-born bring it anywhere. Sandy Hook clam-diggers named Harbro and Samuelsen crossed the Atlantic from New York to Havre in an 18-foot rowboat called including a chapter on wildfowling by J. the FOX in June, July, and August of 1896, from North America? Even though in hisreached the Scottish coast in his kayak?

Both the FOX voyage and the KON-TIKI voyage had this in common, that the kayak and balsa voyages could not have had, the participants knew where they were going and approximately how long it would take

to get there.

For ancient Peruvians to shove off in rafts into the South Equatorial Current to reach Pacific islands presupposes a knowledge of the existence of those islands, a picking specific facts out of the text. knowledge stemming from men who had first navigated from the islands to the conti-Polynesians, and the boats they used would Price 16s. have been their outrigger canoes, in which they reached Hawaii, New Zealand, and even the Antarctic.

That there are cultural links between the Pacific Islands and South America seems to be beyond question, but it was the seafaring Polynesians who must have been responsible for it, and sailing canoes, not balsa rafts, that carried it. The Bering Strait land bridge cannot explain cultural features common to Asia and business of fixing a ship on the Baltic tropical America, as the gaps in North America are too great; but balsa rafts will no amplain them either.

TWO BOOKS ON THE ESSEX COAST BENHAM, Hervey, "The last stronghold of sail; the story of the Essex sailingsmacks, coasters and barges," 202 pp; ill;

ill; index. London, Harrap, 1951. 1286d. The stretch of water between the Thames on the southwest and Harwich on the north has many points of similarity with San Francisco Bay or the Chesapeake. All three boast important but declining shell-fisherhave a concentration of heavy industry with a surrounding agricultural area, and have

developed local types of sailing vessel. What the scow schooner was to San Francisco

In "Last Stronghold", Benham concentrates on the Colne and Blackwater estuaries. and discusses all ther maritime aspects. Wentworth Day; in "Down Tops'1" he confines but does this prove that France was settledhis treatment to the barge types, with additional material by two other barge specitoric times an occasional dying Eskimo has alists, Roger Finch and Philip Kershaw, and covers a wider geographical area, from London all the way to the Tyne and Humber.

Benham's style crowds the narrative with dozens of an ec:dotes and examples, without often pausing to draw broad generalizations A series of from the wealth of detail. drawings by Roger Finch on the front endpaper of "Down Tops'1", showing the evolution of barge types, and a glossary of terms help make up for the difficulty of

BENNETT, A.S., "Tide time," 165 pp; ill. These men could only have been the London, George Allen & Unwin Ltd., 1949.

> In part, this is another book about barges, as from 1933 to 1939 the author sailed JUNE, built in 1869, as a yacht. On the outbreak of war, he shipped as mate in powder targes, and then went into the RNVR, in drifters and motor launches. Four chapters cover his war experiences. and the rest is post-war housing problems, barge sailing, and the like. There is one excellent chapter concerned with the Exchange, where the author earns his living

Some of the chapters have appeared as articles in the yachting press, and the book tends to be a little disjointed in consequence, but there is still plenty of good reading in it. There are 32 plates from excellent photographs, many showing details of barge rigging and fittings.

ANSON, Peter F., "Scots fisherfolk," with illustrations by the author, 166 pp; index steam from 1899 to 1902, and then took Published for the Saltire Society by the Banffshire Journal Ltd., 1950. Price 7/6.

The sea fisheries of Scotland have undergone an alarming decline since World War I. In this volume, Peter Anson, who is primarily an artist but also a keen observer of fishing methods, brings up to date a topic he first wrote about in 1930 in "Fishing boats and fisher folk on the east coast of Scotland."

Surveying both the historical background and the present state of the Scottish fishing industry, Anson goes deeply into the folkways of the fishermen, devoting a whole chapter to religion and super professional training was not neglected, stitions. The text is liberally illustrated with his excellent pen and wash drawings, and the book is rounded off with relevant statistical tables and a bibliography. There is a chapter describing fishing vessel types, with additional material in an appendix.

PURVES. Alec A. "Flags for shipmodellers and marine artists." 84 pp. 104 figs. London. Percival Marshall & Co.Ltd., 1950.

This is a handy, authoritative little volume, well worth its modest price of three-and-sixpence. Anyone wishing to add a spot or two of color to a painting or model, particularly of British vessels of the past, would do well to give it some study. Spain, Portugal, France, Netherlands, Norway, Sweden, Denmark, and the U.S.A. are also briefly covered, the treatment of Norway, in particular, being the most comprehensive we have ever encountered in English.

Early signal codes, from 1790 to the present; are also described. There is a good bibliography.

LEAPMONT. James S., "Master in sail," 222 pp. London, Percival Marshall, 1950. Price 12 shillings sixpence.

Captain Learmont first went to sea in 1887 at 12 with his father in the Solway Firth schooner EARL OF STAIR. In 1890 he shipped before the mast in Rae's bark CRAIGNAIR for a voyage to Chile; then followed a few months in Leyland's steamers VIRGINIAN and COLUMBIAN; and then he joined Rae's new CHIPPERKYLE as A.B. Next he was in the big bark STRATHDON, passed his examination, went second mate of the Bluenose bark WILLIAM LAW, and was then chief mate of the ship COUNTY OF CLARE. Next he

joined Rae's BRENHILDA as mate, was in command of BRENHILDA. From her he went to their BRENDA, which he lost by fire at Iquique in 1906.

Captain John Rae thereupon sent him to St. Nazaire to survey the four-masted bark PASS OF BRANDER, which they bought and renamed, and Capt. Learmont sailed her until 1910, when he retired from deep water to

become a Trinity House pilot.

Captain Learmont was a rather unusual type of British shipmaster. Although he served before the mast rather than as an apprentice, he treated his own apprentices like a father, and saw to it that their as it was in most British ships of this period. In his relationship with the Raes, also, he seems to have been a partowner, dealing directly with the managing owner, rather than an employee dealing with a marine superintendent. In this respect he resembled his contemporary American skippers.

In his book, Captain Learmont has amplified material that he gave in articles in "Sea Breezes" in August 1946, March and July 1948, and January and March 1950, and the result is a valuable and almost unique picture of the operation of British sailing ships from the master's point of view in the declining days of sail. Particularly interesting is the account of the dismasting of the BENGAIRN (ex PASS OF BRANDER) and her subsequent rerigging at Sydney with the ship's force doing most of

the work.

SAILING SHIP NEWS

CITY OF NEW YORK, Hond.aux. 3m. sch. Was in Philadelphia in Dec. with cargo Xmas trees, and laded coal for Nova Scotia. CUTTY SARK, Br. ship. 28 Feb. docked at Millwall DD Co.to be surveyed for possible repairs.

GRACIE S., aux. 2m. sch. Will enter Honolulu race this year.

MARION CHILCOTT, barge (pp.59-60). 1950 was an oil storage hulk at Port of Spain. Trinidad.

PAMIR, Finn. 4m. bk. Left Penarth 13 March: arr. Antwerp 18th; in tow GANGES.

PASSAT, Finn. 4m. bk. Left Penarth 5 March and Cardiff 6th; arr. Antwerp 10th; in tow ZWARTE ZEE. She and PAMIR scrapped.

VIKING, Finn. 4m. bk. Jan. 1951 reported sold for \$70,000 for preservation at Gothenburg as navigation school hostel and marine museum annex.

FLAG NOTES NETS ITEMS

"National Geographic" for February (v. up to date.

As noted in March LOG CHIPS (p. 54) Western Germany now uses the black, red, and gold of the Weimar and 1848 republics motorship, the COVA DA IRIA, sunk. The Eastern Germany now has the same colors. but arranged gold, black, red. Since 15 I, which was laid up last year, but the Dec. 1947, the Saar has flown a flag arran-motorship is not being replaced. ged like that of Sweden, with a white cross on a blue field in the hoist and a red field in the fly; it is close to that of the Dominican Republic.

The Saar flag, with the others of the in "Un drapeau pour l'Europe." by Paul M. G. Levy and Paul Martin in Extrait de Saisons d'Alsace No. 3, 8 pp., 1950. M. Levy also has an article "La bataille des drapeaux" in Notre Europe, no.2, Jan-Feb. 1951. Both of these papers discuss vari-San Francisco's new Maritime Museum will ous proposals to design a flag to symbolize United Europe. A green "E", with the upper and lower arms extending the length of the flag, and a white field between them, has been used; but these authors propose a more esthetic design: a green cross on a white field, with a white CONSTITUTION is being repaired at Boston shield bearing the red bend of Strasbourg with Virginia red oak, treated with prein its center.

1947 established as the flag of Trieste a side her, the CONSTELLATION continues to red field with a white halberd, tradition-deteriorate and may be expected to go the al emblem of Trieste. Apparently, though, way of the AMERICA in a few years. the Italian flag is used as the national flag at sea,

On 9 March the new Libyan flag was raised at Tripoli as the British adminis- lay at the Washington Navy Yard, and in will join it by 1 Jan 1952. The Libyan workmen, and she has gone down hill ever flag is divided horizontally, red, black, since. and green, with the black stripe twice the width of the others. On the black stripe Spanish War veteran OREGON, lying in Apra are a white star and crescent.

We have previously described the new flags of Indonesia (LC v.l.p.105) and of Ceylon (v.2, p.27). Another new Asiatic flag is that of Viet Nam (French Indo-China), three narrow horizontal red bars Ryukyus we gave on page 7 of volume 2.

cargo of explosives. It was rumored she centrally on a yellow field. That of the had been scuttled as a breakwater, but she seems to be still afloat and riding high. One more possible Navy relic was in the The same issue of "National Geographic" mentioned above has 38 color reproductions news recently, with a Navy press release a-

from "American Processional," LC v.2, p.5. bout a piece of wreckage identified as the

CODFISHER NEWS FROM LISBON This year's Banks and Greenland fleet 99, pp.213-238) has an article by Eliza- will be 32 sailers and 12 small motorships, beth W. King, "Flags of the United Nations", and about 20 big trawlers. The 32 sailers which brings most of the post-War changes are 31 schooners and the last barkentine, GAZELA PRIMEIRO. Last year one schoonerthe Danish-built ANA PRIMEIRO, of Figueira da Foz-was burned out and lost, and one ANA I is replaced by the old schooner JULIA

> There is a new trawler called DAVID MEL-GUEIRO, built in Holland, with a capacity

of 30,000 quintals of salt cod.

This year's fleet is baiting from Norway and Portugal, and therefore will not members of the Council of Europe, is shown go into St. John's until it is time to bait for Greenland. ---ALAN VILLIERS

> SAN FRANCISCO MARITIME MUSEUM TO OPEN Culminating over a year of hard work on the part of Karl Kortum and his staff. open on National Maritime Day, 27 May. We will be there in spirit, and hope to visit in the flesh before many more months.

> > NAVY RELICS IN SORRY SHAPE

As reported in November LOG CHIPS, the servative, and thus we can hope to have The Italian peace treaty of September her around for a few more years. Along-

At Norfolk, Farragut's old HARTFORD is in similar shape. President Roosevelt had taken a personal interest in her when she tration turned over the government to Tri-1938 a WPA project spent \$100,000 repairing politan authorities. The other two pro- her. In 1944, however, she was towed down vinces of Libya, Fezzan and Cyrenaica, to Norfolk to become a bunkhouse for yard

Harold Huycke sends a photo of the harbor, Guam, in February 1951. Once being preserved as a relic by the State of Oregon. she was donated to a scrap drive during 2d World War, but instead of being broken up she had her upper works cut off, and was towed out to the Pacific theater with a

MONITOR: the original monitor that fought the MERRIMAC. It lies in the proper position, 20 miles SE of Cape Hatteras, in 20 fathoms, but the Navy announced it had no plans to raise the wreckage, or even to send down divers to confirm the identification.

POWER FISHING IN BRISTOL BAY Long a sail stronghold, by virtue of Fish & Wildlife Service regulations restricting power boats from gill-netting salmon, Bristol Bay this year will be opened to power gill-netters up to 32 ft. length. Subsequent to the new ruling, issued 1 Feb. 1951, there has been a rush to convert the sailing types to power.

The type of craft formerly used was a two-man double ender. It originated with a Greek fisherman on the Sacramento in California, but soon spread to Oregon waters, and hence became known as the "Columbia River Salmon Boat". The powered conversions are cutting off the stern, in order to come under the allowable length, and the result bears little resemblance to the original type, sail and

NEW PUBLICATION ON SHIPMODELING "The Compleat Modellist," a 32-page mimeographed quarterly, appeared in Decem-It is published by the Assober 1950. ciation of Ship Model Societies in London, and circulation is handled by W.F.Purser, Esq., 105 Glengall Road, London SE 15. The G.A. KOHLER, DORIS HAMLIN, and HERBERT L. subscription is 3s, which makes it a real bargain.

Number One was sold out before we learned of it, but Number Two has an article on Early Ironclads and hull and spar dimensions of the 16-gun brig SNAKE of 1832, among many other matters.

NOTES ON THREE AND FOUR MASTERS FANNY ARTHUR (1891), STILLMAN F. KELLY (1905), WILLIE H. CHILD (1888), and GEORGE S. SMITH (1915) were all three-masters, although they are cataloged in your fourmaster list. I knew these schooners very well.

There were two AGNES MANNINGS, both named for the same person. The second (ex GEORGE TAULANE) had iron rods for standing rigging instead of wire, and was the only four-master so rigged.

The two C.S.GLIDDENS were built by Dunn & Elliot of Thomaston and named for the ship broker in Boston. Captain James Fales was master of the first, a nifty

and well balanced schooner. Bound to Tampa, Florida, and arriving at the bar during the night, he anchored. Getting under way in the morning with a pilot aboard, she struck on the Bar and was a total loss. Capt. Fales got some wreckers, stripped the vessel, and shipped by schooner all the masts, booms, gaffs, anchors, chains, and everything movable back to Thomaston

They built the second U.S.GLIDDEN a little larger than the first but with the same sail plan. Fales was master of both during their entire career. He lost the second on Lookout Shoals bound South with a cargo of railroad iron when she was two years old.

The four-master AMELIA ZETMAN was the only four-master that never delivered a pound of cargo. On her maiden voyage she left Norfolk for Santo Domingo with a cargo of coal and has never been heard -- Capt. Harold G. Foss from since.

PASSING OF A SCHOONER MASTER

Captain George H. Hopkins, 73, died on 19 February at the Baltimore Marine Hospital. A native of Bethel, Del., he went to sea at 14, in such deepwater square riggers as JAMES DRUMMOND, ST. DAVID, RHINE, OCHERTYRE, ANDROMEDA, and DIRIGO. He commanded many American coasting schooners. with a brief fling at steam in World War I.

Among his commands were the four-masters RATDING, and he had the five-master EDNA HOYT on her last voyage. Then he went in barges, leaving the WOLLASTON last year when he was taken ill.

FLETTNER ROTORSHIPS

Remember the rotorship? "Science & Invention" and "Popular Mechanics" were full of it 25 years ago, when it was hailed as the most economical means of carrying goods by water, and was going to revolutionize the world's merchant marines, particularly Germany's.

The German professor Magnus had shown back in the 1850's that a cylinder rotated in an air current acquired a thrust perpendicular to its axis. In the early 1920's another German inventor, Anton Flettner, proposed to use this effect instead of sails as a means of vessel propulsion. After some experiments with yachts, he floated the Flettner Rotorschiffahrt GmbH of Hamburg, bought the auxiliary threemasted schooner BUCKAU, unrigged her, and fitted her with two rotors. (Contd.p.69)

NETHERLANDS-BUILT COASTERS, continued from p. 19

Continued herewith from last September is a list of Dutch-built schooners, with a few additions. All are auxiliary steel three-masted schooners, unless indicated.

	1917	
AYO 359	G.& H. Bodewes, Martenshoek	Danish. Danish.
BIO 356	G.& H. Bodewes, Martenshoek	Danish
HERMINA 351	G.& H. Bodewes, Martenshoek	Netherlands
	1918	Model of the state
ALBERTA 444	Woertelboer & Co., Westerbro	oek. Netherlands
BOSCO 386	Gebr. Muller, Foxhol	Netherlands
	1919	
CLARA 385	Gehr. Muller, Foxhol	Netherlands
EMILY 416	D.Boot, Aphen a/d Rijn	DORIN, Birtish
NAVIS IV 382	J. Smit & Zn., Foxhol.	Netherlands; ZWOLLERSKARSPEL;
	SLOTERMEER; RAYMONDE NAVAL,	German; SISSIE, German; VIRTUS,
Helbourne 1915.	Italian.	
NAVIS V 395	Gebr. Muller, Foxhol	Netherlands: NEPTUNUS, Nether-
	lands, Italian.	of a the troit beend
	Gebr. Bodewes, Martenshoek.	
manufacture and the second sec	Wilmink & Co., Gideon	
VELOX about 1351	The state of the s	Swedish; INA, Swedish; ANNA
	ELISABETH, Netherlands.	TOWNER PERTIES 2000 J. Co
	1920	(Astindi) SOSI ARREST ATRAM
GIOVANNA VERDERAME	472 Gebr. Bodewes, Martenshoek	c.Italian; DUE AMICI; EMILIA GUIDI.
LUISA VERDERAME		brock. Italian; CATERINA, Italian,

(Aux.4m.Sch) British (Bahaman).
MARTHA (Aux.4m.Sch)480 J.Th.Wilmink, Groningen German.

1921

PRZEMYSL 435 Wortelboer & Co., Delfzijl GEORGENE, German, American, British.

1925

OCEAAN 453 G.& H.Bodewes, Martenshoek. Netherlands; NOTRE DAME DU CHATELET, French.

1939

ARGUS (Aux. 4m. Sch) 696 De Haan & Oerlemans, Heusden. Portuguese.

The BUCKAU, 497 tons, had been built at IRISH PENNANTS

Kiel by Krupp in 1920, and had an auxili— GLENSHEE (p.60) was lost by going ary diesel originally intended for a sub— ashore near Haaholmen on 26 Dec.1922, bound marine. The BARBARA, built at Bremen by from Goole to Arendal. --Andy Nesdall the Weser yard, had two big diesels hy— Carl Christensen sends us a photo of draulically coupled to a single shaft, and CROWLEY (p.7) showing her as a baldheaded actually was a full-powered motorship. five-master with no yards.

SAILING VESSELS BUILT IN THE UNITED KINGDOM. 1881 (All IRON unless noted otherwise)

W. Doxford & Sons, Sunderland COUNTY OF PEMBROKE Bark 1098 W. Thomas & Co., Liverpool. Wrecked 14 Nov. 1903.

Osbourne, Graham & Co., Sunderland
Bark 1334 Shaw, Savill & Albion Lim., Sthmptn. Submarined 1917. AKAROA

BALAKIAVA Bark 1347 Davison, Bisset & Co., Liverpool.

NONNO ANGELO 1900 (Italian) Broken up 1915.

R. Thompson & Son, Sunderland

1233 P. Iredale & Son, Liverpool. Lost in collision 1900. EMBLETON

Richardson, Duck & Co., Stockton

ANDORA Ship 1720 E.F.& W.Roberts, Jiverscol Broken up Germany 1911. Ship 1727 C.W.Kellock & Co., Liverpl. Submarined Jan. 1917.
Ship 1894 E.Bates & Son, Liverpool. COMBERMERE

KELAT

1903 Leif Gundersen, Porsgrund. Hulked Melbourne 1915.

Oswald, Mordaunt & Co., Southampton.

ANDROSA 1999 G.W.Roberts, Liverpool. Abnd. afire March 1907. Ship

2002 E.Bates & Son, Liverpool. Missing 1883. DARJILING Ship

2002 E.Bates & Son, Biverpool.

1945 J.Houston & Co., Liverpool. Lost w.all hands 1883.

2000 J.Coupland, Liverpool. DUNSTAFFNAGE Ship

VICTORIA REGINA Ship

MARIA TERESA 1903 (Italian)

Y HULSE Wood Bark 491 J.R.Leckie, Glasgow & Market Modern Agriculture (documental) MAY HULSE

MARTHA (Aux. 4m. Sch) 480 J. Th. Hinisk, Groninge J. W. & A. Upham, Brixham

Stranded 1884. SILVER LINING Wood Bktn 369 Builders

Harvey & Co., Hayle

TYNRON Bktn 288 T.C.Guthrie, Glasgow

T.MacMaster & Co., Pembroke Dock.

MARY MACMASTER Wood Bark 614 Builders, Milford.

Moles and R. & J. Evans & Co., Liverpool

IRBY Ship 1523 Ismay, Imrie & Co., Lvrpl. Mined North Sea Jan. 19.

AMERICA Second W.H. Potter & Sons, Liverpool

ARISTOMENE Ship 1795 H. Fernie & Sons, Liverpool.

OLONA 1908 S.A. Riccardo Gualino & Piaggio, Genoa. Broken up 1923.

COLUMBA Ship 1794 Sandbach, Tinne & Co., Lvrpl. Wrecked Sept. 1896. COPLEY Ship 1794 Ismay, Imrie & Co., Lvrpl. Broken up Denmark 1911.

JESSOMENE Ship 1980 H. Fernie & Sons, Liverpool.

HELDOS 1907 L. Lydersen, Tvedestrand

FIDELIO 1918 A/S Fido (M. Hansen), Kristiansand. Broken up Stavanger 23.

ORCHOMENE Ship 1586 H. Fernie & Sons, Liverpool. Lost 10 Jan. 1892.

THALATTA Ship 1793 McDiarmid, Greenshields & Co., Lvrpl. Lost 1912. WALDEN ABBEY Ship 1799 J.Poole & Co., Liverpool.

SVANEN 1916 U.Müller, Copenhagen. Submarined 23 Apr. 1917.

Whitehaven Shipbuilding Co., Whitehaven.

WASDALE Ship 1879 J.D. Newton, Liverpool. Summarined 5 Feb, 1917.

Ritson & Co., Maryport

SOUTHERFIELD Wood Bark 731 Builders. Burned Oct. 1888.

Troon Shipbuilding Co., Troon.

Wood Bktn. 198 J. Steer, St. Johns, Newfoundland, Fndrd, March 1918. DUNURE

LOG CHIPS 71 Barr & Shearer, Ardrossan. CLUTHA Wood Sm. Sch. 261 W.P. Munn; St. Johns, Newfoundland, Sold to Barbados. R. Steele & Co., Greenock.

4m.Bark 2097 R. Shankland & Co., Greenock ROUTENBURN STITHIOD 1906 Red. A/B Navigator (J.E. Olson), Gothenburg BEATPICE 1922 Red. A/B Poliux (A. Pedersen), Gothenburg, Broken up 1932. Russell & Co.; Port Glasgow and Greenock, Greenock yard. Bark 1165 Hatfield, Cameron & Co., Glasgow, Abnd. afire 1917. ALGOA BAY Ship 1583 Thes. Dunlop & Sons, Glasgow. Hulked Noumea 1913. Bark 1145 Thom & Cameron, Glasgow. Lost. Dec. 1890. CLAN MAGFARLANE CLYNDER 913 P Denniston, Glasgow. JAVA Bark H.E. Wolden, Montevideo. Wrecked July 1921, Brazil. KHOKAND 1153 W. Crawford, Greenock. Missing 1882. Bark ROTOMAHANA Ship 1658 J.R.de Wolf, Liverpool. Lost 19 Aug. 1884. Port Glasgow yards. CLOSTBURN Bark 924 T.C. Guthrie, Glasgow, 1921 N. Fremberg, Sölvesborg, Sweden. Wrecked 5 Dec. 1928, Aland. VIRGO 4m. Ship 1891 Gillison & Chadwick, Lyrpl. Lost Sept. 1904, Colif. DRUMBURTON Bark 924 J. Dunn & Sons, Glasgow. Hulked Bermuda 1921. DUNCRAG Ship 1624 Kerr, Newton & Co., Greenock. Abnd. afire Aug. 1881. KILMODAN R. Duncan & Co., Port Glasgow Ship 1464 R.R. Paterson, Greenock. Missing 1881. HERMES POSETDON Ship 1778 C.S. Caird & Co., Greenock. PATRIA CAUPOLI CAN 1921 Borquez y Cia., Valparaiso (Motorship). H. Murray & Co., Port Glasgow 4m, Ship 1950 Watson Bros., Glasgow. Missing 1892. J. Reid & Co., Port Glasgow BOLIVIA 904 Nicholson & McGill, Liverpool. Steel Bark Haakon Christensen, Laurvig, Norway. BAUNEN 1908 TUXPAN (barge) Ended as Cuban molasses barge. CARLETON 1358 J. Kerr & Co., Greenock Steel Bark MARIO 1897 G. Lauro, Castellamare. Missing 1918, S. Pacific. 905 Nicholson & McGill, Lvrpl. VALDIVIA Steel Bark GUADELOUPE 1924 Pure Rum Co., Havre. Scrapped Havre 1925. R. Chambers Jun., Dumbarton. BERWICK LAW Bark 1335 D. Law. Glasgow. Missing 1886. Barclay, Curle & Co., Glasgow. 4m. Ship 2081 General Shipp.Co., Glasgow. Wrecked Jan. 1890. 4m. Ship 2081 General Shipp.Co., Glasgow. Foundered Jan. 1915. LOCH MOIDART LOCA TORRIDON SIREN Ship 1555 A. & J.H. Carmichael & Co., Greenock. Sunk 1896. Dobie & Co., Glasgow. 1963 Devitt & Moore, London. ILLAWARRA Ship Foundered March 1912. Napier, Shanks & Bell, Glasgow LARGO LAW Ship 1681 David Law, Glasgow. Burned Callao Feb. 1905. W. Hood & Co., Aberdeen

A. Hall & Co., Aberdeen

SCCTTISH WIZARD Bark 1209 McIlwraith, McEacharn & Co., London.

PASQUALE LAURO F. Lauro, Castellamare. Missing Atlantic 1917.

1383 G. Thompson & Co., Aberdeen. Sunk Oct. 1903 in cllsn.

ORONTES

J. Roney, Arbroath

THE MACBAIN Wood Bktn. 298 Robertson Brothers, Dundee.

A. Stephen & Son, Dundee

GLENFARG Bark 898 Dundee Shipowners Co. (W.O. Taylor & Co.), Dundee THEKLA 1906 Jens Samuelsen & B.Olsen, Farsund. Broken up 1929.

THETIS Wood Stm.Bark 723 Builders Ramage & Ferguson, Leith

HIGHLAND CHIEF Bark 944 net. Crane, Colvil & Co., Glasgow. Lost 30 Dec. 1881.

P. Rodgers, Cartickfergus

MARY ARMSTEAD Wood 3m.Sch. 119 J. Fisher & Sons, Barrow. Lost in collsn.June 1902.

MARY MILLER Wood 3m.Sch. 119 J. Fisher & Sons, Barrow. Made houseboat, 1949.

(With thanks to Captain H, Daniel of Montevideo and Jim Mills of San Diego for assistance in running down the 1881 ships.)

THE EARLIEST STEEL SAILING VESSELS

When Bessemer steel was first introduced, it was tried as a shipbuilding material. Some Civil war blockade runners were built of it, and other light steamer types, and also the following three sailing vessels:

tons 1863 builders

Ship FORMBY 1271 Jones, Quiggin & Co., Liverpool

1864

Ship CLYTEMNESTRA 1250 Jones, Quiggin & Co., Liverpool
Ship ALTCAR 1283 Jones, Quiggin & Co., Liverpool

Then there followed a period of years in which Bessemer steel was considered unsuitable as shipbuilding material. Finally open-hearth steel was developed, and in the '70's it began to be used for construction in the British and French navies. Then mail steamers were built of it, although its high price relative to wrought iron prevented its general use in merchant craft. Yards sometimes built small sailing vessels with material left over from a steamer contract. Gradually steel mill capacity was built up, the price differential decreased, and more vessels were produced:

Ship BAY OF CADIZ 1700 J. & G. Thomson, Glasgow 1880 Bark KYLEMORE 1245 J. Reid & Co., Port Glasgow R. Williamson & Son, Workington Ship ALDEBARAN 1913 1881 1245 J. Reid & Co., Port Glasgow Bark BOLIVIA J. Reid & Co., Port Glasgow Bark 1358 CARLETON J. Reid & Co., Port Glasgow Bark VALDIVIA 905 1882 W. Doxford & Sons. Sunderland Bark KIRKMI CHAEL 933 J. Reid & Co., Port Glasgow Bark CLONCAIRD 1361 J. Reid & Co., Port Glasgow J. Reid & Co., Port Glasgow 4m. Bark PINMORE 2431 Ship SIERRA PARIMA 1584 GLENFYNE 957 A. Stephen & Sons, Dundee Bark Bark GLENOGLE .958 HELENSLEA Bark 1374 Ship GARFIELD 2347 Harland & Wolff, Belfast (Iron Floors & Beams) 11 11 4m. Ship LORD DOWNSHIRE 11 2322 (Iron Floors & Beams)

Lists for later years can readily be picked out of the launching lists already published in LOG CHIPS. We count 10 vessels built wholly or partly of steel in 1883, 6 in 1884; 26 in 1885; 16 in 1886; 12 in 1887; and 32 in 1888.

TITES WITCH Dark 1209 Hollwreith, "offnohern & Co., London.